

RESTRICTED

Report No. M-4093

PILOT'S HANDBOOK

MODEL N3N-3 AIRPLANE

NAVAL AIRCRAFT FACTORY
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PHILADELPHIA, PA.

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FOREWORD

The information contained in this booklet is intended to give the pilot, who is flying the N3N-3 airplane for the first time, an outline of the principal operating features of the airplane.

A more detailed description of the airplane in general is contained in the "Erection and Maintenance Instructions", a copy of which is furnished with each airplane.

DESCRIPTION OF OPERATION OF AIRPLANE

The N3N-3 airplane may be taken off, flown and landed in the manner of all conventional airplanes of this type.

The flying characteristics of the airplane are normal in all respects, there being no special features incorporated that would require special attention.

NOTE: In cases where Technical Notes or Technical Orders are specified, the latest revision applies.

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TABLE OF CHARACTERISTICS

(Based on Gross Weight)

	Without Engine: Ring Cowl	With Engine: Ring Cowl
Gross Weight (45 gallons fuel)	: 2800 lbs.	: 2842 lbs.
Full Speed at Sea Level	: 126 M.P.H.	: 130.5 M.P.H.
Stalling Speed at Sea Level (44 Kn.)	: 50.5 M.P.H.	: 51 M.P.H.
Initial Rate of Climb	: 900 ft./min.	: 900 ft./min.
Climb to 5000 feet	: 6.7 min.	: 6.7 min.
Climb to 10,000 feet	: 17.3 min.	: 17.3 min.
Service Ceiling	: 15200 ft.	: 15050 ft.
Endurance at 125 M.P.H. (Sea Level)	: 1.98 hrs.	: 1.98 hrs.
Endurance at 112 M.P.H. (Sea Level)	: 2.89 hrs.	: 2.89 hrs.
Endurance at 94 M.P.H. (Sea Level)	: 4.49 hrs.	: 4.49 hrs.
Endurance at 75 M.P.H. (Sea Level)	: 6.18 hrs.	: 6.18 hrs.
Take-Off Distance in Calm	: 300 ft.	: 300 ft.
Rated Power of Engine	: 235 BHP	: 235 BHP
Wing Loading (45 gallons fuel)	: 9.2 lbs.	: 9.32 lbs.
Power Loading (45 gallons fuel)	: 11.9 lbs.	: 12.1 lbs.
Wing Area (Total)	: 305 sq.ft.	: 305 sq.ft.
Wing Span (Max.)	: 34 ft.	: 34 ft.
Fuel Capacity (Total)	: 45 gal.	: 45 gal.
Oil Capacity (Not including foaming space)	: 3.75 gal.	: 3.75 gal.

TABLE OF CHARACTERISTICS

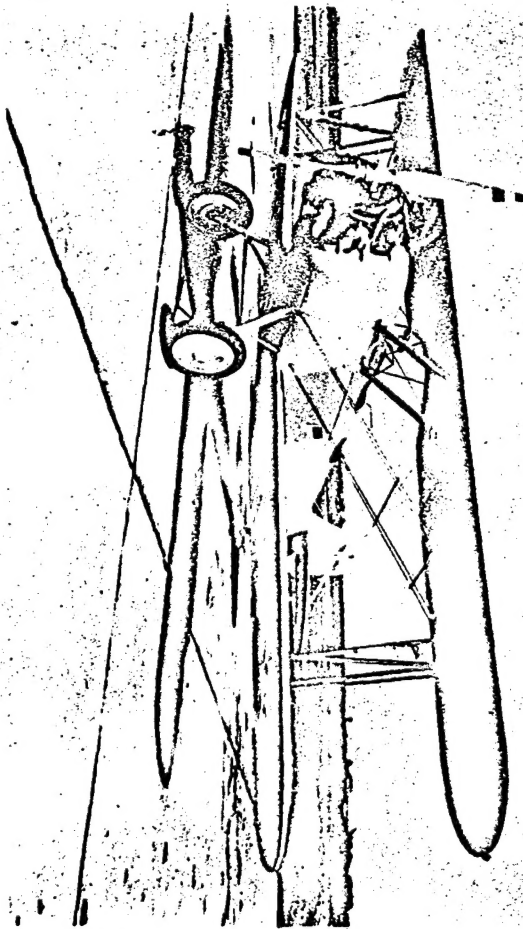
(Seaplane) (Without Engine Ring Cowl)

(Based on Gross Weight)

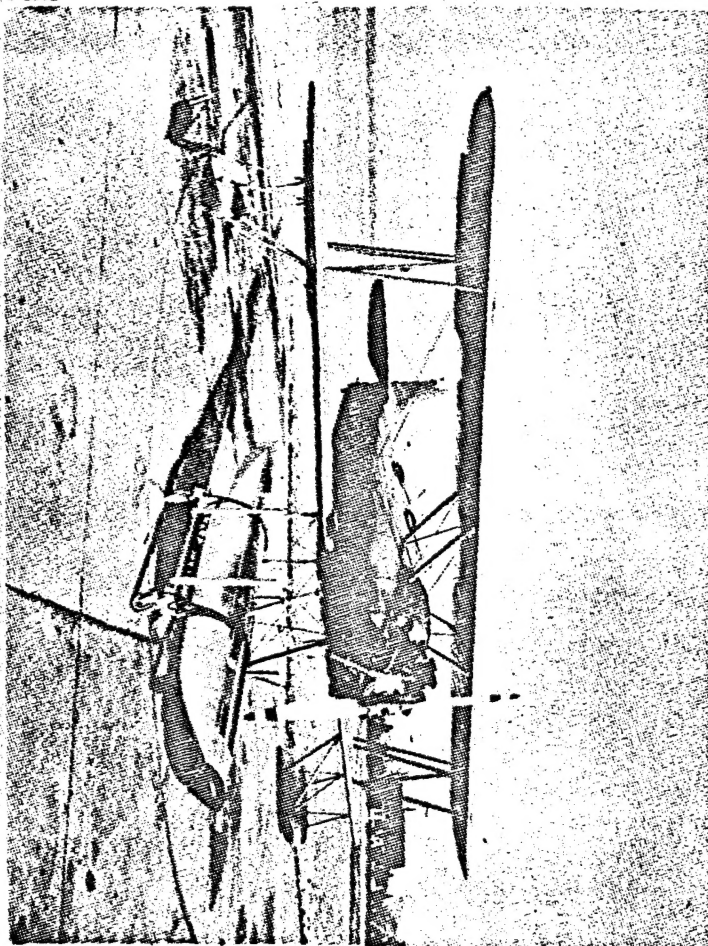
Gross Weight (45 gallons fuel).....	2940 lbs.
Full Speed at Sea Level	123.5 M.P.H.
Stalling Speed at Sea Level (43.5 Kn)	50 M.P.H.
Climb to 5000 feet	7.3 min.
Service Ceiling	14300 ft.
Endurance at 123.5 M.P.H.	1.98 hrs.

Rated Power of Engine	235 BHP
Wing Loading (45 gallons fuel).....	9.6 lbs.
Power Loading (45 gallons fuel).....	12.5 lbs.
Wing Area (Total).....	305 sq.ft.
Wing Span (Max.).....	34 ft.
Fuel Capacity (Total)	45 gal.
Oil Capacity (Not including foaming space).....	3.75 gal.

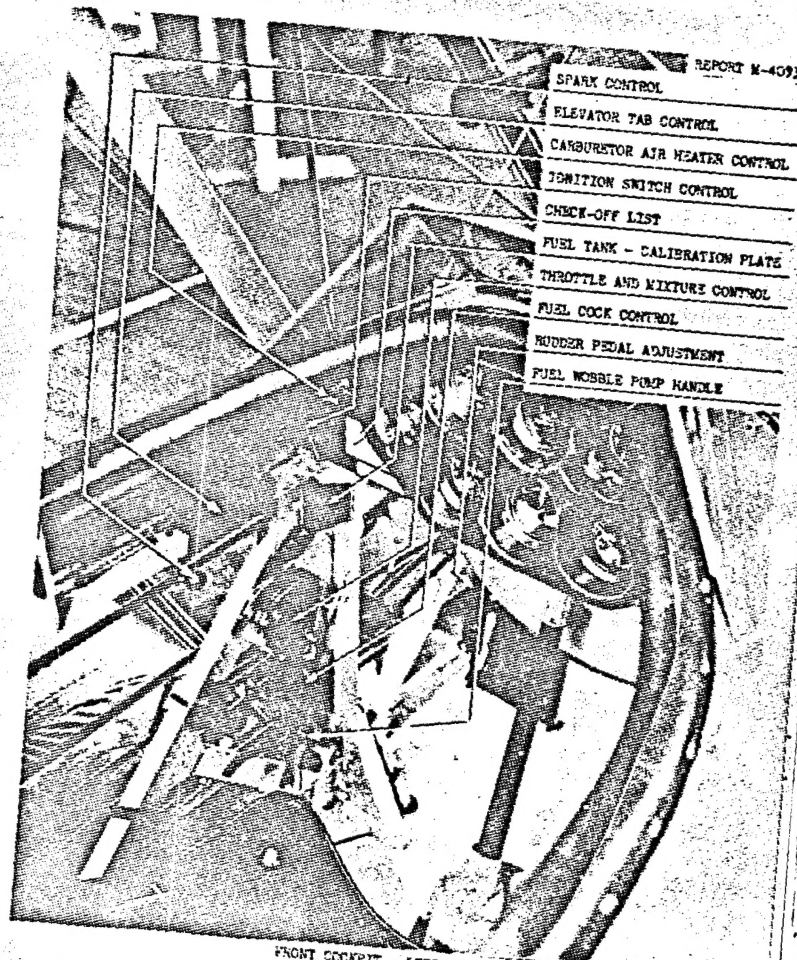
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SPARK CONTROL

ELEVATOR TAB CONTROL

CARBURETOR AIR HEATER CONTROL

IGNITION SWITCH CONTROL

CHECK-OFF LIST

FUEL TANK - CALIBRATION PLATE

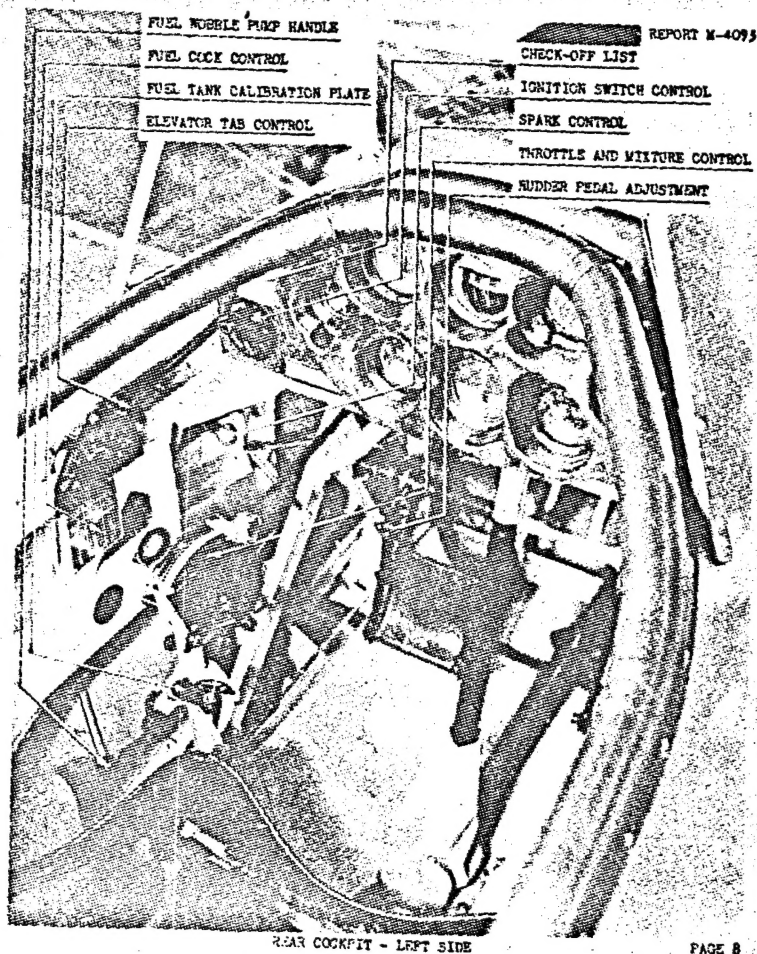
THROTTLE AND MIXTURE CONTROL

FUEL COCK CONTROL

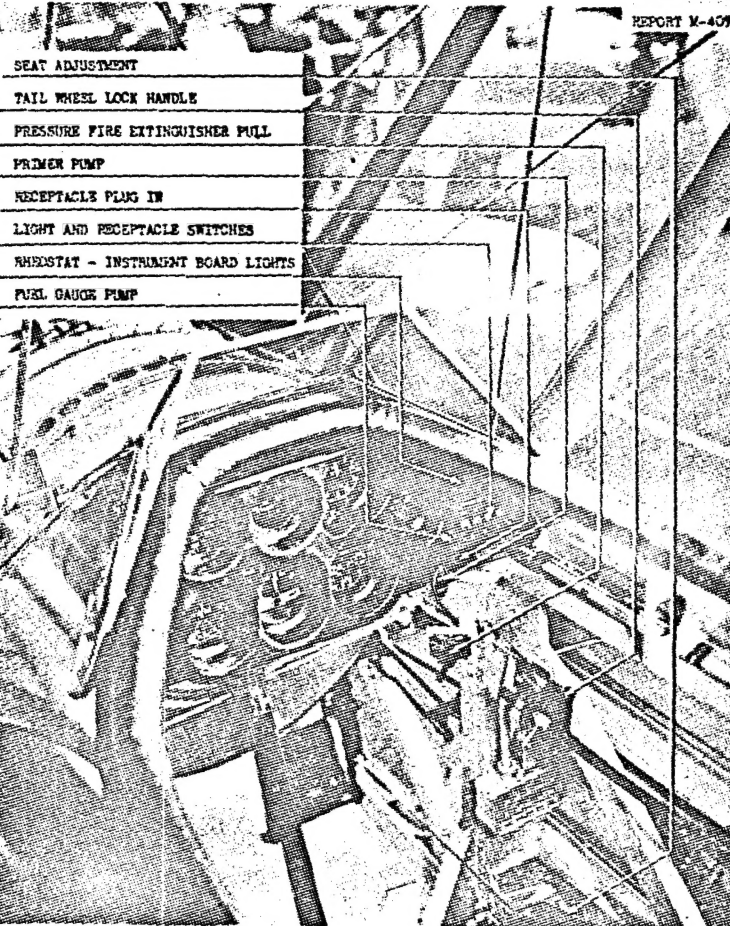
RUDDER PEDAL ADJUSTMENT

FUEL WOBBLE PUMP HANDLE

FRONT COCKPIT - LEFT SIDE



REAR COCKPIT - LEFT SIDE



FRONT COCKPIT - RIGHT SIDE

HAND FIRE EXTINGUISHER

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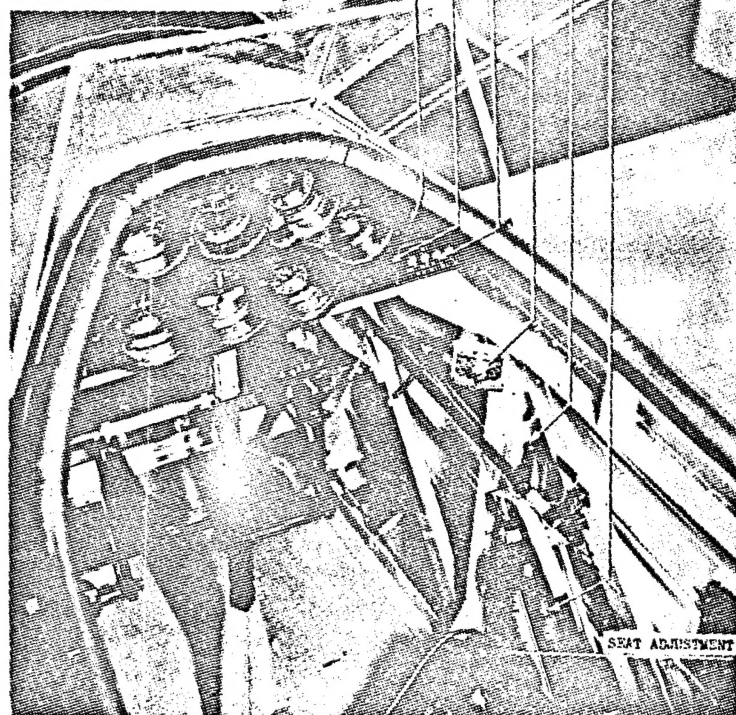
TAIL WHEEL LOCK CONTROL

PRESSURE FIRE EXTINGUISHER PULL

LIGHT AND RECEPTACLE SWITCHES

FUEL GAUGE PUMP

RHEOSTAT - INST. BOARD LIGHTS



REAR COCKPIT - RIGHT SIDE